

**MARYLAND HISTORICAL TRUST  
DETERMINATION OF ELIGIBILITY FORM**

NR Eligible: yes ☒   
no ☐

Property Name: Hangar 144 Patuxent Naval Air Station Inventory Number: SM-620  
Address: \_\_\_\_\_ City: Patuxent River Zip Code: 20670-5409  
County: Saint Marys USGS Topographic Map: Solomons Island  
Owner: U.S. Navy Is the property being evaluated a district? ☐ yes  
Tax Parcel Number: n/a Tax Map Number: n/a Tax Account ID Number: n/a  
Project: Rehabilitation Agency: U.S.NAVY  
Site visit by MHT staff: ☒ no ☐ yes Name: \_\_\_\_\_ Date: \_\_\_\_\_  
Is the property is located within a historic district? ☐ yes ☒ no

If the property is within a district District Inventory Number: \_\_\_\_\_  
NR-listed district ☐ yes Eligible district ☐ yes Name of District: \_\_\_\_\_  
Preparer's Recommendation: Contributing resource ☐ yes ☐ no Non-contributing but eligible in another context ☐ yes

If the property is not within a district (or the property is a district) Preparer's Recommendation: Eligible ☒ yes ☐ no

Criteria: ☒ A ☐ B ☒ C ☐ D Considerations: ☐ A ☐ B ☐ C ☐ D ☐ E ☐ F ☐ G ☐ None

Documentation on the property/district is presented in:

National Register of Historic Places Multiple Property Documentation Form: Naval Air Station Patuxent River, Maryland; Historic and Architectural Resources; Final Draft, 1999. Berger & Assoc.

Description of Property and Eligibility Determination: *(Use continuation sheet if necessary and attach map and photo)*

During World War II, the Navy was tasked to study and eliminate radio frequency interference that plagued the Fleet at that time. The war had outstripped the capacity of electronic engineers and aircraft designers to maintain consistency of electronic equipment. At the very end of the war, plans were developed to construct a shielded hangar large enough to house the largest aircraft at NAS, a recently built Naval Air Station on the shores of the Chesapeake Bay. Construction of the shielded hangar began in early 1947, but because of scarce building supplies due to the war effort, completion and occupancy was delayed until the middle of 1949.

Hangar 144 a T-shaped building consisting of a single main hangar section under a steel arch truss roof with a single web system and a rear "nose bay" section under a flat, steel truss roof. The main portion of the hangar is 374 feet wide by 158 feet deep, with a maximum ceiling height of sixty-six feet. The front of the hangar faces east and is equipped with sliding doors that open to the full width of the hangar bay. The exterior end walls of the hangar are wood framed and sheathed in Transite asbestos board. The Transite was covered over with corrugated metal siding about 1995. The lean-tos have concrete exterior walls and all of the pedestrian doors are flush steel replacement doors.

All interior surfaces of the hangar bay are lined with radio interference shielding that consists of galvanized-steel hardware cloth

**MARYLAND HISTORICAL TRUST REVIEW**

Eligibility recommended ☒ Eligibility not recommended ☐

Criteria: ☒ A ☐ B ☒ C ☐ D Considerations: ☐ A ☐ B ☐ C ☐ D ☐ E ☐ F ☐ G ☐ None

**MHT Comments**

Documentation reviewed by LLB, concurrence on eligibility in letter signed by JRL on 10/1/1999

Reviewer, Office of Preservation Services

J. Rodney Little

Reviewer, NR Program

Date

October 01, 1999

Date

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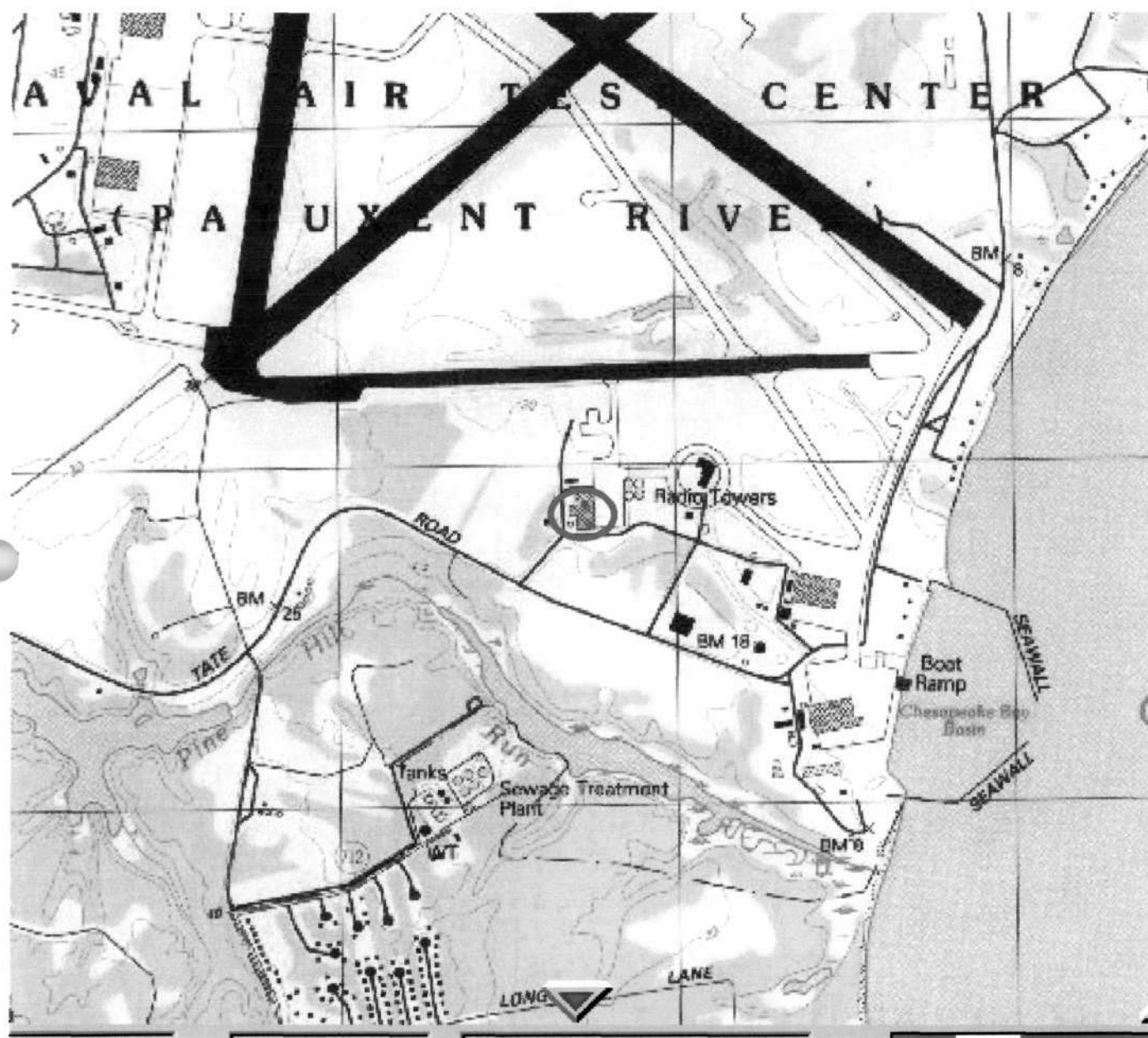
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of eight meshes per inch, attached to wax-impregnated wood framing. All of the building's seams are soldered to ensure a continuity of the shield. A double layer of the shielding cloth is imbedded in the concrete floor. Originally, seven small shielded test laboratories were inside the lean-tos. All but two of these rooms have been removed during past renovations. The shielded labs were small, essentially freestanding, wood-framed rooms completely lined with copper sheeting. The two remaining rooms have been lined with paneling and are presently used as office space.

In compliance with Section 110 of the NHPA of 1966, as amended, Hangar 144 was examined in the project that evaluated all World War II, post-war, and cold War era facilities for historical/architectural significance and National Register eligibility. This context is documented in the National Register of Historic Places Multiple Property Documentation Form: Naval Air Station Patuxent River, Maryland, Historical and Architectural Resources, final draft 1999 prepared by Louis Berger and Associates, Inc., Cultural Resources Group. Within phase II of this project Hangar 144 was evaluated and found individually eligible for the National Register. Hangar 144 is an example of a uniquely engineered building, designed to carryout a highly specialized aircraft electronics testing program. The hangar meets Criteria A for its association with the primary mission of NAS during the early Cold War period. As the primary building and center of the Electronics Test Division program, the hangar is particularly illustrative of the research and testing activities conducted by the Division in these decades. The hangar also meets Criteria C in that it embodies distinctive characteristics of a type, period, and method of construction. Completed in 1949, the Electronics Test Shielded Hangar was the first of its kind and until 1956 remained the largest shielded hangar in the world. Both NAS and the Maryland State Historic Preservation Officer acknowledged this recommendation.

Prepared by: Louis Berger & Assoc., IncDate Prepared: 06/06/1999

SM-620  
Hangar 144  
Patuxent Naval Air Station  
Solomons Island USGS Quad



NAVAL AIR STATION PATUXENT RIVER  
ELECTRONICS TEST SHIELDED HANGAR 144

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St. Mary's County  
Maryland

Photographer: Rob Tucher

March 2000

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- 25 1951 photograph of test bench. Original on file, Electronics Test Division, Naval Air Station Patuxent River, Maryland.
- 26 Bureau of Yards and Docks Drawing No. 430,383. "Electronics Test Hangar: Plan and Plot Plan." May 17, 1946. Original on file, Public Works Department, Naval Air Station Patuxent River, Maryland.
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- 28 Bureau of Yards and Docks Drawing No. 430,385. "Electronics Test Hangar: Elevations, Sections, and Roof Plan." May 17, 1946. Original on file, Public Works Department, Naval Air Station Patuxent River, Maryland.

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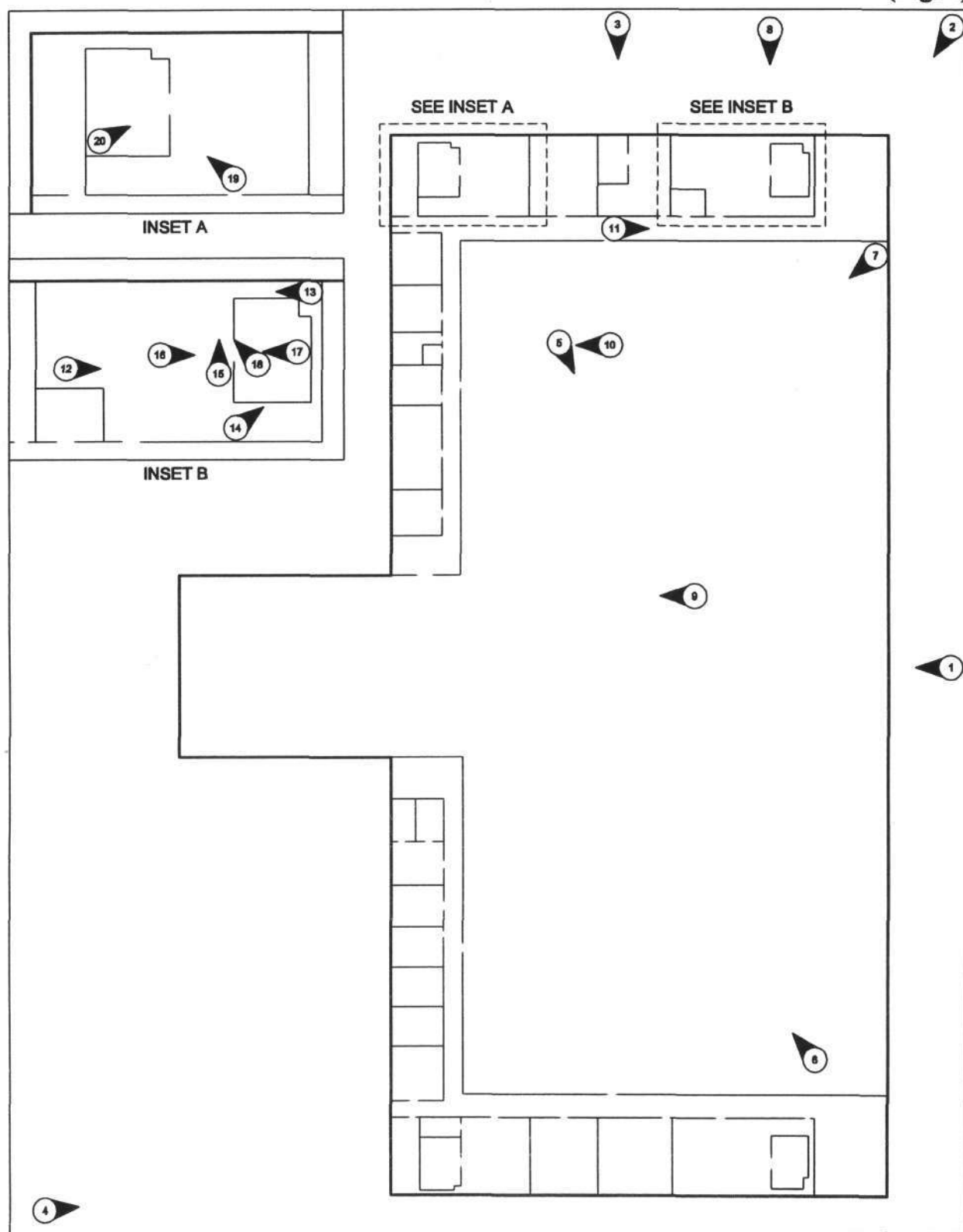
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- 29 Bureau of Yards and Docks Drawing No. 430,386. "Electronics Test Hangar: Details of North & South Lean-Tos." May 17, 1946. Original on file, Public Works Department, Naval Air Station Patuxent River, Maryland.
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ELECTRONICS TEST SHIELDED HANGAR 144

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United States Department of the Interior  
National Park Service

## NATIONAL REGISTER OF HISTORIC PLACES REGISTRATION FORM

This form is for use in nominating or requesting determinations for individual properties and districts. See instructions in How to Complete the National Register of Historic Places Registration Form (National Register Bulletin 16A). Complete each item by marking "x" in the appropriate box or by entering the information requested. If any item does not apply to the property being documented, enter "N/A" for "not applicable." For functions, architectural classification, materials, and areas of significance, enter only categories and subcategories from the instructions. Place additional entries and narrative items on continuation sheets (NPS Form 10-900a). Use a typewriter, word processor, or computer, to complete all items.

### 1. Name of Property

historic name Electronics Test Shielded Hangar 144, NAS Patuxent River SA 357 SM-620

other names/site number \_\_\_\_\_

### 2. Location

street & number \_\_\_\_\_ not for publication \_\_\_\_\_

city or town Naval Air Station Patuxent River vicinity X

state Maryland code MD county St. Mary's code 037 zip code 20670

### 3. State/Federal Agency Certification

As the designated authority under the National Historic Preservation Act of 1966, as amended, I hereby certify that this \_\_\_\_\_ nomination \_\_\_\_\_ request for determination of eligibility meets the documentation standards for registering properties in the National Register of Historic Places and meets the procedural and professional requirements set forth in 36 CFR Part 60. In my opinion, the property \_\_\_\_\_ meets \_\_\_\_\_ does not meet the National Register Criteria. I recommend that this property be considered significant \_\_\_\_\_ nationally \_\_\_\_\_ statewide \_\_\_\_\_ locally.

( \_\_\_\_\_ See continuation sheet for additional comments.)

Signature of certifying official \_\_\_\_\_

Date \_\_\_\_\_

State or Federal agency and bureau \_\_\_\_\_

In my opinion, the property \_\_\_\_\_ meets \_\_\_\_\_ does not meet the National Register criteria.

( \_\_\_\_\_ See continuation sheet for additional comments.)



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USDI/NPS NRHP Registration Form  
Electronics Test Shielded Hanger 144, NAS Patuxent River  
St. Mary's County, Maryland

Signature of commenting or other official

Date

State or Federal agency and bureau

#### 4. National Park Service Certification

I, hereby certify that this property is:

☐ entered in the National Register

☐ See continuation sheet.

☐ determined eligible for the  
National Register

☐ See continuation sheet.

☐ determined not eligible for the  
National Register

☐ removed from the National Register

☐ other (explain):

Signature of Keeper

Date of Action

#### 5. Classification

##### Ownership of Property

(Check as many boxes as apply)

- ☐ private  
☐ public-local  
☐ public-State  
☒ public-Federal

##### Category of Property

(Check only one box)

- ☒ building(s)  
☐ district  
☐ site  
☐ structure  
☐ object

##### Number of Resources within Property

Contributing

Noncontributing

1

buildings

sites

structures

objects

1

Total

USDI/NPS NRHP Registration Form  
*Electronics Test Shielded Hanger 144, NAS Patuxent River*  
*St. Mary's County, Maryland*

Name of related multiple property listing (Enter "N/A" if property is not part of a multiple property listing.)

## Naval Air Station Patuxent River, Maryland: Historic and Architectural Resources

## 6. Function or Use

Cat: DEFENSE

Sub: Naval facility

Cat: DEFENSE

Sub: Naval facility

## 7. Description

Other: 20th-Century military

## 20th-Century industrial

foundation      Concrete

roof Wood, asphalt

walls	Metal-steel, masonry, asbestos-
-------	---------------------------------

panel, copper, steel wire mesh

other \_\_\_\_\_

**Narrative Description** (Describe the historic and current condition of the property on one or more continuation sheets.)

USDI/NPS NRHP Registration Form  
*Electronics Test Shielded Hanger 144, NAS Patuxent River*  
*St. Mary's County, Maryland*

**8. Statement of Significance**

**Applicable National Register Criteria**

(Mark "x" in one or more boxes for the criteria qualifying the property for National Register listing)

- ☒ A Property is associated with events that have made a significant contribution to the broad patterns of our history.
- ☐ B Property is associated with the lives of persons significant in our past.
- ☒ C Property embodies the distinctive characteristics of a type, period, or method of construction or represents the work of a master, or possesses high artistic values, or represents a significant and distinguishable entity whose components lack individual distinction.
- ☐ D Property has yielded, or is likely to yield information important in prehistory or history.

**Criteria Considerations**

(Mark "x" in all the boxes that apply.)

- ☐ A owned by a religious institution or used for religious purposes.
- ☐ B removed from its original location.
- ☐ C a birthplace or a grave.
- ☐ D a cemetery.
- ☐ E a reconstructed building, object, or structure.
- ☐ F a commemorative property.
- ☐ G less than 50 years of age or achieved significance within the past 50 years.

**Areas of Significance** (Enter categories from instructions):

Architecture  
Engineering  
Military  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

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USDI/NPS NRHP Registration Form  
*Electronics Test Shielded Hanger 144, NAS Patuxent River*  
*St. Mary's County, Maryland*

**Period of Significance**

1945-1965

**Significant Dates**

**Significant Person** (Complete if Criterion B is marked above)

N/A

**Cultural Affiliation**

N/A

**Architect/Builder**

U.S. Navy, Bureau of Yards and Docks

**Narrative Statement of Significance** (Explain the significance of the property on one or more continuation sheets.)

**9. Major Bibliographical References**

(Cite the books, articles, and other sources used in preparing this form on one or more continuation sheets.)

Previous documentation on file (NPS)

- ☐ preliminary determination of individual listing (36 CFR 67) has been requested.
- ☐ previously listed in the National Register
- ☐ previously determined eligible by the National Register
- ☐ designated a National Historic Landmark
- ☐ recorded by Historic American Buildings Survey # \_\_\_\_\_
- ☐ recorded by Historic American Engineering Record # \_\_\_\_\_

Primary Location of Additional Data

- ☒ State Historic Preservation Office
- ☐ Other State agency
- ☒ Federal agency
- ☐ Local government
- ☐ University
- ☐ Other

Name of repository Naval Air Station Patuxent River, Maryland, Public Works Office

USDI/NPS NRHP Registration Form  
Electronics Test Shielded Hanger 144, NAS Patuxent River  
St. Mary's County, Maryland

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## 10. Geographical Data

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Acreage of Property: 1 acre

UTM References (Place additional UTM references on a continuation sheet)

	Zone	Easting	Northing		Zone	Easting	Northing
1	<u>18</u>	<u>376740</u>	<u>4236860</u>	3	<u>      </u>	<u>      </u>	<u>      </u>
2	<u>      </u>	<u>      </u>	<u>      </u>	4	<u>      </u>	<u>      </u>	<u>      </u>
<u>      </u> See continuation sheet.							

**Verbal Boundary Description** (Describe the boundaries of the property on a continuation sheet.)

*See Continuation Sheet*

**Boundary Justification** (Explain why the boundaries were selected on a continuation sheet.)

*See Continuation Sheet*

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## 11. Form Prepared By

---

name/title Richard M. Casella

organization The Louis Berger Group, Inc. date May 1999

street & number 120 Halsted Street telephone 973-678-3427

city or town East Orange state NJ zip code 07019

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## Additional Documentation

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(Submit the following items with the completed form:)

Continuation Sheets

Maps: A USGS map (7.5 or 15 minute series) indicating the property's location.

A sketch map for historic districts and properties having large acreage or numerous resources.

Photographs: Representative black and white photographs of the property.

Additional items (Check with the SHPO or FPO for any additional items)

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USDI/NPS NRHP Registration Form  
*Electronics Test Shielded Hanger 144, NAS Patuxent River*  
*St. Mary's County, Maryland*

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**Property Owner**

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(Complete this item at the request of the SHPO or FPO.)

name Naval Air Station Patuxent River

street & number \_\_\_\_\_ telephone \_\_\_\_\_

city or town Patuxent River state MD zip code 20670

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Paperwork Reduction Act Statement: This information is being collected for applications to the National Register of Historic Places to nominate properties for listing or determine eligibility for listing, to list properties, and to amend existing listings. Response to this request is required to obtain a benefit in accordance with the National Historic Preservation Act, as amended (16 U.S.C. 470 et seq.).

Estimated Burden Statement: Public reporting burden for this form is estimated to average 18.1 hours per response including the time for reviewing instructions, gathering and maintaining data, and completing and reviewing the form. Direct comments regarding this burden estimate or any aspect of this form to the Chief, Administrative Services Division, National Park Service, P.O. Box 37127, Washington, DC 20013-7127; and the Office of Management and Budget, Paperwork Reductions Project (1024-0018), Washington, DC 20503.

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United States Department of the Interior  
National Park Service

## NATIONAL REGISTER OF HISTORIC PLACES CONTINUATION SHEET

Section 7 Page 1

Electronics Test Shielded Hangar 144, NAS Patuxent River  
St. Mary's County, Maryland

### DESCRIPTION

The Electronics Test Hangar is a T-shaped building consisting of a single main hangar section under a steel arch truss roof with a single web system and a rear "nose-bay" section under a flat steel truss roof. The main portion of the hangar is 374 feet wide by 158 feet deep, with a maximum ceiling height of 66 feet. The front of the hangar faces east and is equipped with sliding doors that open to the full width (300 feet) of the hangar bay. A large concrete apron in front of the hangar connects it to Taxiways P and Q, which in turn lead to the Air Station's runways.

The nose-bay section measures 65 feet wide by 100 feet deep. It was built to accommodate the noses of large planes, but was converted to an anechoic test chamber circa 1983 that can accommodate most of today's fighter jets. Two-story, concrete, lean-to structures are located down each side of the building, serving the dual purpose of restraining the thrust of the arches by gravity and providing useful office space, work rooms, and test laboratories.

All interior surfaces of the hangar bay are lined with radio interference shielding, which consists of galvanized-steel hardware cloth of eight meshes per inch, attached to wax-impregnated wood framing. All of the building's seams are soldered to ensure a continuity of the shield. A double layer of the shielding cloth is imbedded in the concrete floor. All penetrations of the shielding for pipes, wires, lighting fixtures, etc., are wrapped tightly with shielding. The sliding hangar doors and pedestrian doors between the lean-tos and the hangar bay are fitted with copper leaf-type seals that interlock to prevent radiation leakage.

Besides the usual shops and offices in the lean-tos, there were originally seven small shielded test laboratories. All but two of these rooms have been removed during past renovations. The shielded labs were small, essentially freestanding, wood-framed rooms, completely lined with copper sheeting. The two remaining rooms have been lined with paneling and are presently used as office space.

The hangar bay has two sets of doors, one weather set and one shielded set immediately behind. Both sets of doors are 35 feet high and have 10 leaves, each 30 feet wide. The doors are drawn open electrically and store, five leaves on each side, in concrete pockets located at the ends of the lean-tos. Above the two center sliding doors is a top-hinged canopy door, also called the tail door, which measures 60 feet wide and 35 feet high, is lined with shielding mesh, and opens by swinging in and up against the ceiling of the hangar. As the name implies, the tail door is designed to accommodate the high tail of large planes. The shielded doors are of wood construction covered with the same mesh that lines the hangar bay.

The exterior end walls of the hangar are wood framed and sheathed in Transite asbestos board. The Transite was covered over with corrugated metal siding about 1995. The lean-tos have concrete exterior walls and retain most of the original metal frame, industrial, tilt-sash windows. All of the pedestrian doors are flush steel replacement doors.



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## NATIONAL REGISTER OF HISTORIC PLACES CONTINUATION SHEET

Section 8 Page 2

Electronics Test Shielded Hangar 144, NAS Patuxent River  
St. Mary's County, Maryland

### SIGNIFICANCE SUMMARY

Evaluation of the Electronics Test Shielded Hangar 144 for National Register eligibility is based upon criteria outlined in the National Register of Historic Places Multiple Property Documentation Form *Naval Air Station, Patuxent River, Maryland, Historic and Architectural Resources* under the property type "Testing Facilities." The hangar is significant under the historic context *Naval Air Station, Patuxent River and Webster Field During the Early Cold War Period, 1945-1965*, as defined in the Multiple Property Documentation study.

Electronics Test Shielded Hangar 144 is an example of a uniquely engineered building, designed to carry out a highly specialized aircraft electronics testing program. Commonly called the "noise hangar," it was electronically shielded to exclude all external electronic or electrical interference so as to facilitate the evaluation of electronic equipment installed in aircraft. The hangar meets National Register Criterion A for its association with the primary mission of NAS Patuxent River during the early Cold War period. As the primary building and center of the Electronics Test Division program, the hangar is particularly illustrative of the research and testing activities conducted by the Division in these decades. It also meets National Register Criterion C in that it embodies distinctive characteristics of a type, period, and method of construction. Completed in 1949, the Electronics Test Shielded Hangar 144 was the first of its kind and until 1956 remained the largest shielded hangar in the world.

### RESOURCE HISTORY AND HISTORIC CONTEXT

The Electronics Test Shielded Hangar 144 was built and designed by the U.S. Navy's Bureau of Yards and Docks, Planning and Design Department, under the direction of Robert E. Hiles, project manager. Captain Ira P. Griffin served as the Navy's Officer in Charge of Construction. Plans and specifications for the building were ready in early 1946 and the contract was let that June, but construction of the building was not completed until early 1949. Progress had been delayed considerably during 1947 as a result of the nationwide shortage of steel occasioned by the great steelworkers' strike that took place that year.

Two contracts, for a total of \$2,000,000, were awarded for the construction of the hangar. The site work, including the parking apron, runways, and access roads, was completed by J. C. Langenfelter & Son of Baltimore, Maryland, for the sum of \$400,000. The Tuller Construction Company of Red Bank, New Jersey, was awarded the \$1,600,000 contract for construction of the hangar itself. Tuller subcontracted the structural steel work to the American Bridge Company of Pittsburgh, Pennsylvania. The shielding of the hangar, which involved a complex installation of uninterrupted, 1/8-inch, steel wire mesh along the inside surfaces of the hangar, was subcontracted to Lewis & McDowell, Inc., of New York City. Lewis & McDowell hired General Electric and Westinghouse Electric to consultant on the shielding installation and determine the most efficient means to accomplish the 17 miles of soldering required to join the sections of steel mesh (Grupp 1947:41-42).

Steel mesh was chosen instead of solid sheets of steel or copper because of its cost and its ventilation properties. To limit breaks in the shielding, windows were eliminated from the design. Bronze spring contacts were installed at all

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## NATIONAL REGISTER OF HISTORIC PLACES CONTINUATION SHEET

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Electronics Test Shielded Hangar 144, NAS Patuxent River  
St. Mary's County, Maryland

door openings to maintain shield continuity when the doors were closed. The mesh was attached with special staples to two-by-four wood nailing strips which were impregnated with paraffin to prevent electrical conductivity from moisture absorption. Two layers of mesh, sealed in an asphalt tack coat and separated by a four-inch-thick mixture of sand, gravel, and asphalt, were imbedded in the hangar's concrete floor. All pipe and conduit penetrations of the shield, such as the sprinkler heads, were electrically bonded to the shield. The initial test projects conducted upon completion of the noise hangar confirmed that the accuracy of interference evaluations undertaken within it far exceeded the accuracy of those conducted in previous ground or flight evaluation (Grupp 1947:41-42; Naval Historical Center 1947:8, 1949:1/15-16, 1950:14).

The Electronics Test Division (designated Radio Test Division at the time) was established at NAS Patuxent River in July 1943 when it was moved from NAS Anacostia. During World War II, the mission of "Radio Test," the evaluation and improvement of radio communications and radar technology, was a top priority for the Allies. The Radio Test Division was redesignated Electronics Test on June 16, 1945.

The experience of Electronics Test in World War II revealed the need for an electronically shielded hangar. The tremendous expansion in the range and quantity of aircraft electronic equipment during World War II had outstripped the capacity of electronic engineers and aircraft designers to maintain consistency of operation in a given aircraft's complement of electronic equipment. It was soon discovered that the operation of powerful electronic devices in close proximity to one another, as in an airplane cockpit, was resulting in unacceptable or dangerous interference or "noise." The science and technology of electromagnetic shielding had yet to be developed. Before interference tests could be conducted on aircraft and their electronic equipment, it was necessary to create an environment in which additional interference was absent. Proper operational analysis of equipment mounted in planes had not been previously possible because of electromagnetic interference from industrial, atmospheric, and other electronic sources, such as radio and television broadcasting. The Bureau of Aeronautics, therefore, decided to construct a shielded hangar for Electronics Test in which electronic equipment on aircraft could be tested in a situation free from external interference. The interference coming from the aircraft's other electronic equipment and electrical machinery, such as the ignition system, could then be evaluated (NATC-NAS Patuxent River Public Affairs Office 1949:16; Naval Historical Center 1949:1/15-16).

The post-war years saw a major expansion at Electronics Test Division in terms of activity, personnel, and facilities, in response to the ever-growing importance of electronics technology in relation to aircraft technology overall. Between 1943 and 1951, the portion of the total cost of the average naval aircraft represented by the cost of its electrical and electronics equipment increased nearly four-fold.

The All-Weather Aids Department was established within the Division in September 1948, incorporating organizations transferred from other installations and redesignated the Navy Air Navigation Electronics Project. The Navigational Aids, Airport Lighting, and Special Devices sections of Electronics Test Division were also consolidated in the All-Weather Aids Department. The four sections of the new department evaluated all types of navigational and landing aid systems in trials conducted both on the ground and in the air. By 1951, Electronics Test Division was conducting more

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**NATIONAL REGISTER OF HISTORIC PLACES  
CONTINUATION SHEET**

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Electronics Test Shielded Hangar 144, NAS Patuxent River  
St. Mary's County, Maryland

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than half of the total projects undertaken at the Naval Air Test Center (NATC). The Division employed 37 officers, 264 enlisted men, and 448 civilians, which was more civilians than the other test divisions combined (*Naval Aviation News* 1951:1-5; Naval Historical Center 1945:52-59).

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**NATIONAL REGISTER OF HISTORIC PLACES  
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Electronics Test Shielded Hangar 144, NAS Patuxent River  
St. Mary's County, Maryland

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**MARYLAND COMPREHENSIVE PRESERVATION PLAN DATA**

Geographic Organization: Western Shore

Chronological/Developmental Period(s): Modern Period

Prehistoric/Historic Period Theme(s): Military

Resource Type:

Category: Building

Historic Environment: Suburban

Historic Function(s) and Use(s): Military Facility

Known Design Source: U.S. Navy, Bureau of Yards and Docks

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**NATIONAL REGISTER OF HISTORIC PLACES  
CONTINUATION SHEET**

Section 9 Page 6

Electronics Test Shielded Hangar 144, NAS Patuxent River  
St. Mary's County, Maryland

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1987 *Solomons Island, MD. 7.5-Minute Series (Topographic) Quadrangle*. U.S. Geological Survey, Reston, Virginia.

SM-620

United States Department of the Interior  
National Park Service

**NATIONAL REGISTER OF HISTORIC PLACES  
CONTINUATION SHEET**

Section 10 Page 7

Electronics Test Shielded Hangar 144, NAS Patuxent River  
St. Mary's County, Maryland

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**GEOGRAPHICAL DATA**

Verbal Boundary Description

The National Register boundaries for the Electronics Test Shielded Hangar 144 are depicted on the attached figure.

Boundary Justification

These boundaries encompass the entire area within which the Electronics Test Shielded Hangar 144 operated during its period of significance.

SM-680

United States Department of the Interior  
National Park Service

**NATIONAL REGISTER OF HISTORIC PLACES  
CONTINUATION SHEET**

Section Photos Page 8

Electronics Test Shielded Hangar 144, NAS Patuxent River  
St. Mary's County, Maryland

The following items apply to all 18 photographs:

Property Name: Electronics Test Shielded Hangar 144, Naval Air Station Patuxent River

Location: NAS Patuxent River, St. Mary's County, Maryland

Photographer: Rob Tucher

Date of Photograph: 2000

Location of Negatives: NAS Patuxent River, Patuxent River, Maryland 20670

**Individual Photograph Identifications:**

- 1 East facade, looking west
- 2 East facade and north elevation, looking southwest
- 3 North elevation, looking south
- 4 South and west elevations, looking northeast
- 5 Interior view of main hangar space, showing shielded mesh doors closed and hangar doors mostly closed, looking southeast
- 6 Interior view of main hangar space, showing nose-bay room with door closed, looking northwest
- 7 Detail of hangar roof system and catwalk, showing main hangar space through shielding mesh
- 8 Detail of exterior window near east shielded room, looking south
- 9 Detail of nose-bay room with door open, looking west
- 10 Detail of shielding mesh lining west wall and ceiling, looking up and west
- 11 Hallway outside shielded test rooms, showing original fire sprinkler system equipment, looking east



SM-620

United States Department of the Interior  
National Park Service

**NATIONAL REGISTER OF HISTORIC PLACES  
CONTINUATION SHEET**

Section Photos Page 9

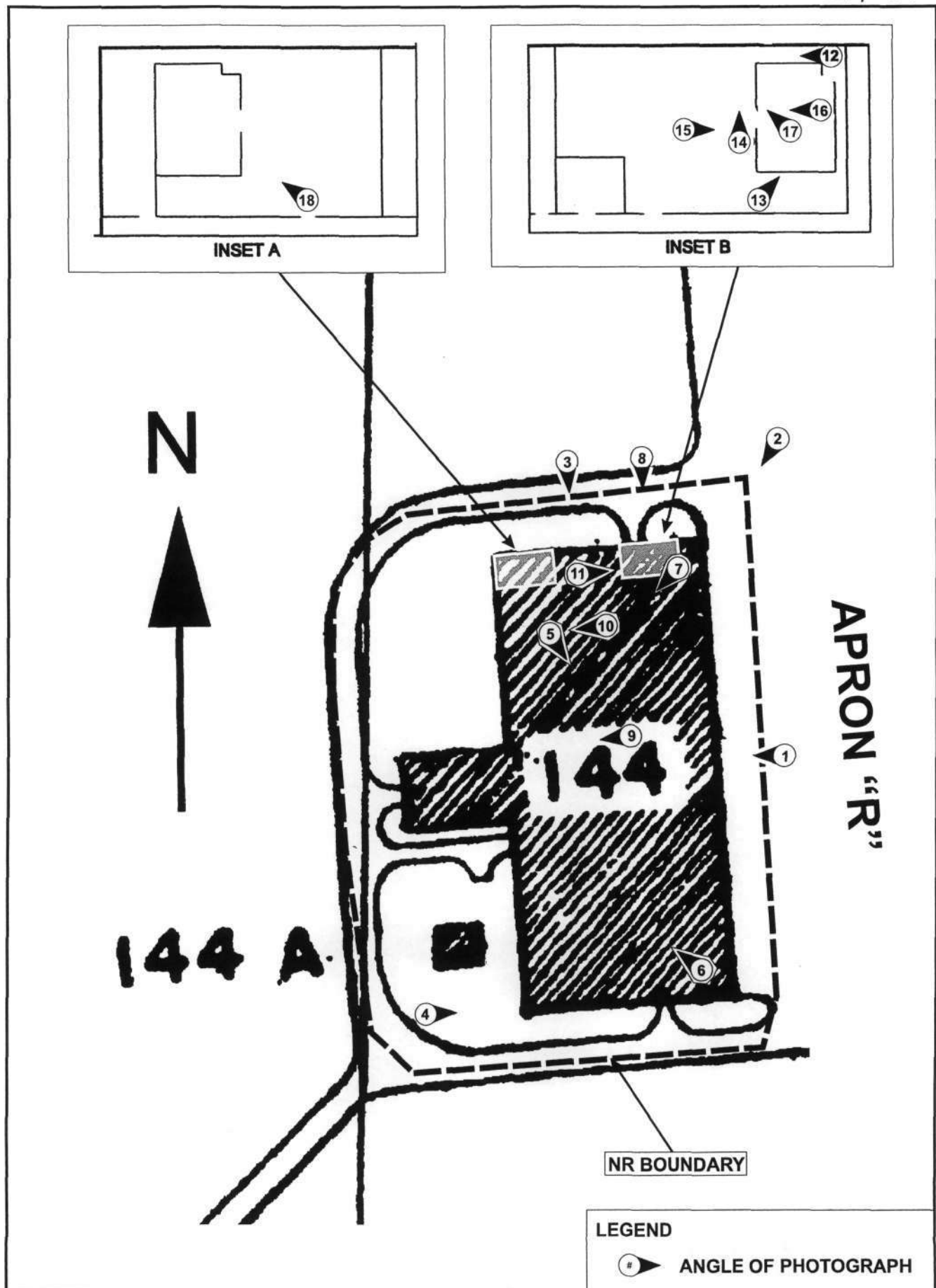
Electronics Test Shielded Hangar 144, NAS Patuxent River  
St. Mary's County, Maryland

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Individual Photograph Identifications (continued):

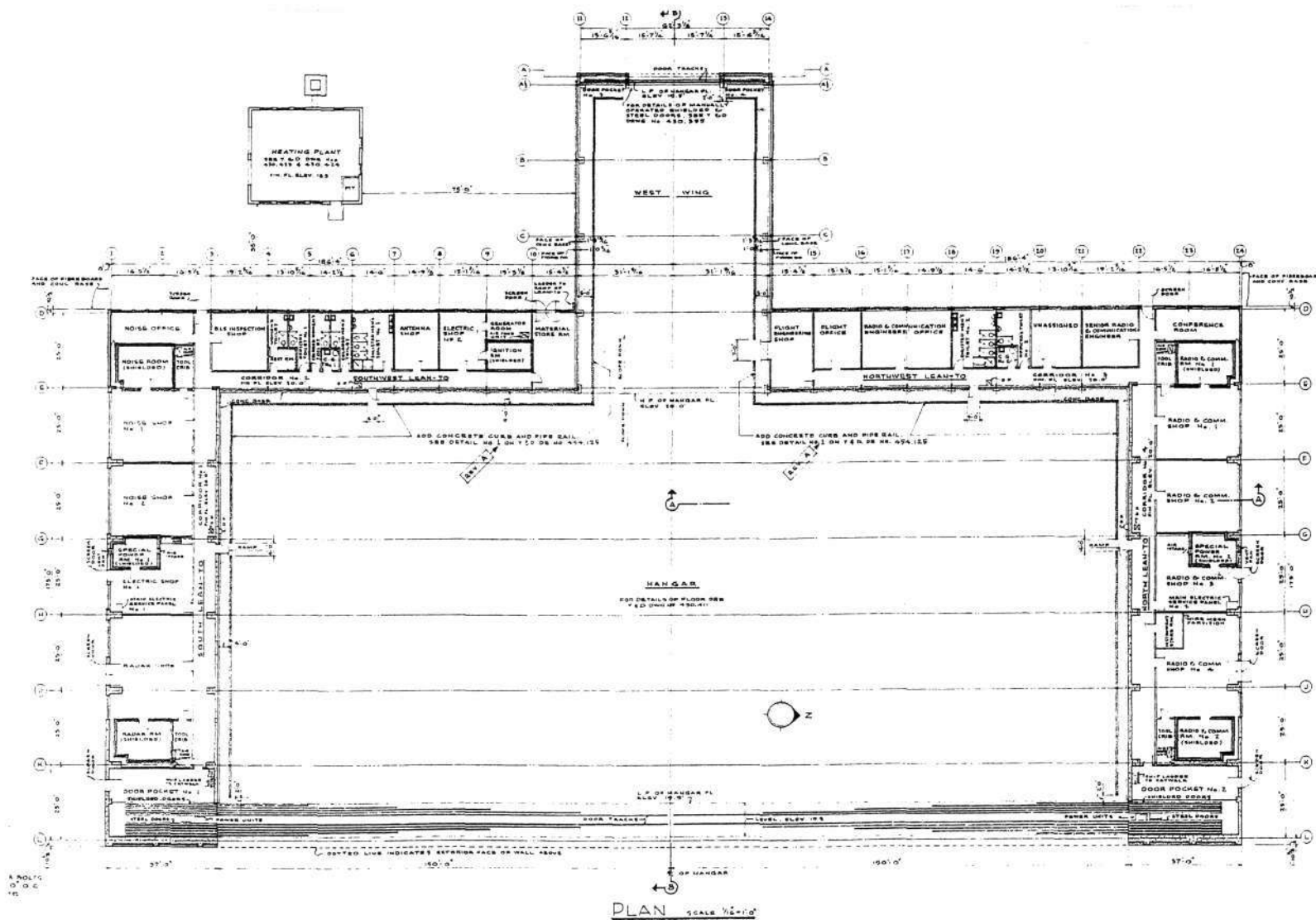
- 12 North elevation of east shielded room against interior of north hangar wall, showing solder points and copper sheathing, looking west
- 13 South elevation of east shielded room, showing solder points and copper sheathing, looking northeast
- 14 Detail of doorway into shielded room and interior of typical hangar windows, looking north
- 15 Detail of exterior of east shielded room, looking east
- 16 Interior of east shielded room, looking west
- 17 Detail of door hinge, solder joints, and copper strip, looking northwest
- 18 East facade and south elevation of west shielded room, looking northwest

SM-670



Site Plan, National Register Boundary, and Key to Photographs for Electronics Test Shielded Hangar 144

SOURCE: NAS Patuxent River Public Works Dept. 1995

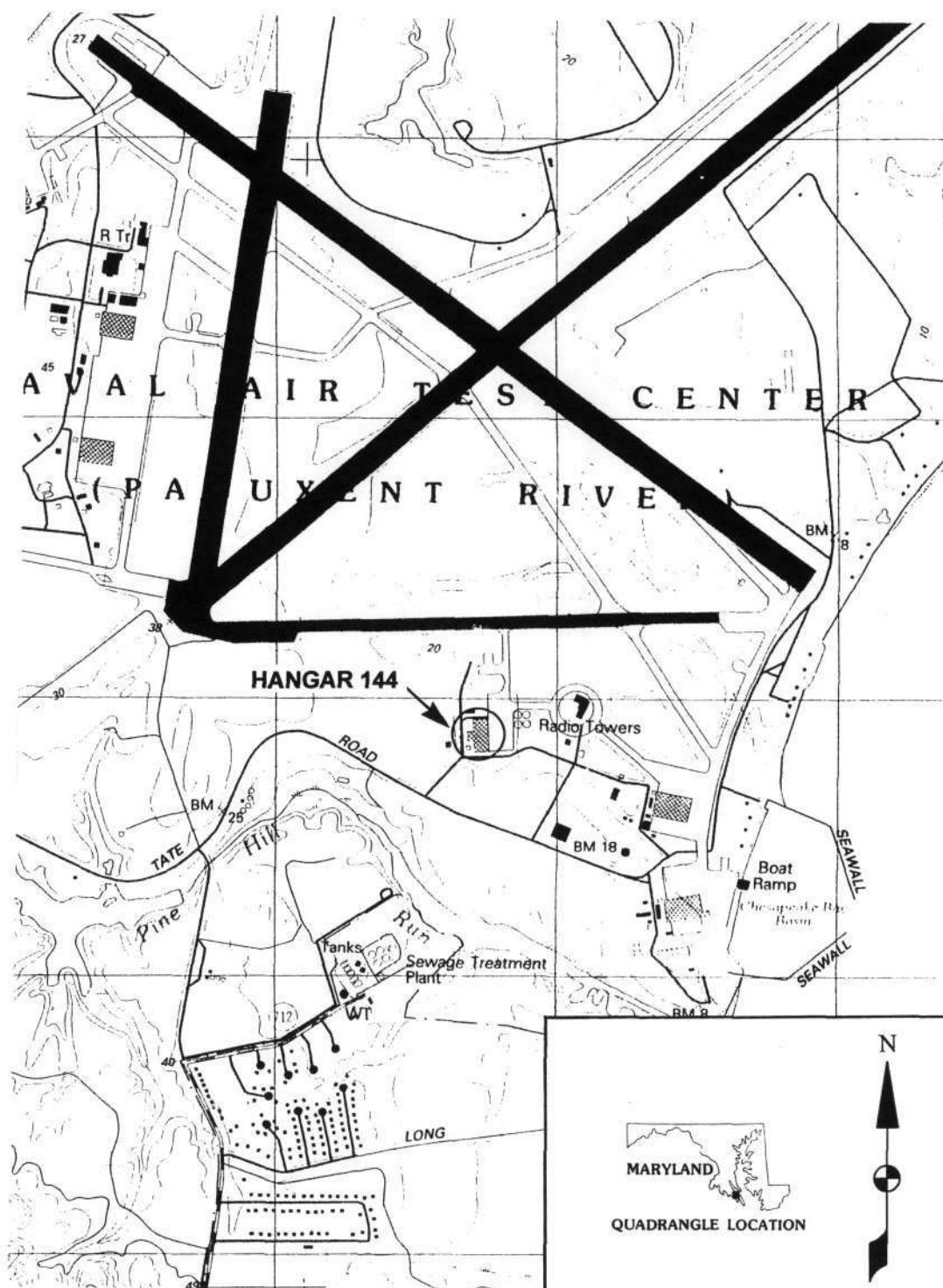


Floor Plan of Electronics Test Shielded Hangar 144 in 1946

SOURCE: NAS Patuxent River Public Works Dept., 1946

SM-6-30

SM-620



Location Map for Electronics Test  
Shielded Hangar 144

SOURCE: USGS Quadrangle, Solomons Island, MD 1987



MI HP No. SM-620

Electronics Test Shielded Hangar 144,  
Naval Air Station Patuxent River  
St. Mary's County, Maryland

Rob Tucher, March 2000

Negative @ NAS Patuxent River, Patuxent River, Maryland  
East facade. Looking west.

1 of 30





MIHP No. SM-620

Electronics Test Shielded Hangar 144,

Naval Air Station Patuxent River

St. Mary's County, Maryland

Rob Tucher, March 2000

Negative @ NAS Patuxent River, Patuxent River, Maryland

East facade and north elevation. Looking southwest.

2 of 30



MIHP No. SM-620

Electronics Test Shielded Hangar 144,  
Naval Air Station Patuxent River

St. Mary's County, Maryland

Rob Tucher, March 2000

Negative @ NAS Patuxent River, Patuxent River, Maryland

North elevation. Looking South.

3 of 30



MIHP No. SM-620

Electronics Test Shielded Hangar 144,

Naval Air Station Patuxent River

St. Mary's County, Maryland

Rob Tucher, March 2000

Negative @ NAS Patuxent River, Patuxent River, Maryland

South and west elevations. Looking northeast.

4 of 30



MIHP No. SM-620

Electronics Test Shielded Hangar 144,  
Naval Air Station Patuxent River  
St. Mary's County, Maryland

Rob Tucher, March 2000

Negative @ NAS Patuxent River, Patuxent River, Maryland

Interior view of main hangar space, showing shielded  
mesh doors closed, and hangar doors mostly closed.

Looking Southeast.

5 of 30





MIHP No. SM-620

Electronics Test Shielded Hangar 144,  
Naval Air Station Patuxent River  
St. Mary's County, Maryland

Rob Tucher, March 2000

Negative @ NAS Patuxent River, Patuxent River, Maryland

Interior view of main hangar space showing nose-bay  
room with door closed. Looking northwest

6 of 30



MIHP No. SM-620

Electronics Test Shielded Hangar 144,  
Naval Air Station Patuxent River  
St. Mary's County, Maryland

Rob Tucher, March 2000

Negative @ NAS Patuxent River, Patuxent River, Maryland

Detail of hangar roof system and catwalk, showing  
main hangar space through shielding mesh.

7 of 30



MIHP No. SM-620

Electronics Test Shielded Hangar 144,  
Naval Air Station Patuxent River  
St. Mary's County, Maryland

Rob Tucher, March 2000

Negative @ NAS Patuxent River, Patuxent River, Maryland

Detail of exterior window near east shielded room.

Looking south.

8 of 30



MIHP No. SM-62D

Electronics Test Shielded Hangar 144,

Naval Air Station Patuxent River

St. Mary's County, Maryland

Rob Tucher, March 2000

Negative @ NAS Patuxent River, Patuxent River, Maryland

Detail of nose-bay room with door open. Looking west.

9 of 30





MIHP No. SM-620

Electronics Test Shielded Hangar 144,  
Naval Air Station Patuxent River

St Mary's County, Maryland

Rob Tucher, March 2000

Negative @ NAS Patuxent River, Patuxent River, Maryland

Detail of shielding mesh lining west wall and ceiling.  
Looking up and west.

10 of 30



MIHP No. SM-620

Electronics Test Shielded Hangar 144,  
Naval Air Station Patuxent River  
St. Mary's County, Maryland

Rob Tucher, March 2000

Negative @ NAS Patuxent River, Patuxent River, Maryland

Hallway outside shielded test rooms, showing original  
fire sprinkler system equipment. Looking east.

11 of 30



MIHP No. SM-620

Electronics Test Shielded Hangar 144,  
Naval Air Station Patuxent River

St. Mary's County, Maryland

Rob Tucher, March 2000

Negative @ NAS Patuxent River, Patuxent River, Maryland

West facade of east shielded room. Looking east

12 of 30



MIHP No. SM-620

Electronics Test Shielded Hangar 144,  
Naval Air Station Patuxent River

St. Mary's County, Maryland

Rob Tucher, March 2000

Negative @ NAS Patuxent River, Patuxent River, Maryland  
North elevation of east shielded room against interior of  
north hangar wall, showing solder points and copper  
sheathing. Looking west.

13 of 30





MIHP No. SM-620

Electronics Test Shielded Hangar 144,  
Naval Air Station Patuxent River  
St. Mary's County, Maryland  
Rob Tucher, March 2000

Negative @ NAS Patuxent River, Patuxent River, Maryland  
South elevation of east shielded room, showing solder  
points and copper sheathing. Looking northeast.

14 of 30



MIHP No. SM-620

Electronics Test Shielded Hangar 144,  
Naval Air Station Patuxent River

St. Mary's County, Maryland

Rob Tucher, March 2000

Negative @ NAS Patuxent River, Patuxent River, Maryland

Detail of doorway into shielded room and interior of  
typical hangar windows. Looking north.

15 of 30

105

105-S



MIHP No. SM-620

Electronics Test Shielded Hangar 144,  
Naval Air Station Patuxent River  
St. Mary's County, Maryland

Rob Tucher, March 2000

Negative @ NAS Patuxent River, Patuxent River, Maryland

Detail of exterior of east shielded room.

Looking east.

16 of 30



MIHP No. SM-620

Electronics Test Shielded Hangar 144,  
Naval Air Station Patuxent River  
St. Mary's County, Maryland

Rob Tucher, March 2000

Negative @ NAS Patuxent River, Patuxent River, Maryland  
Interior of east shielded room. Looking west.

17 of 30





MIHP No. SM-620

Electronics Test Shielded Hangar 144,

Naval Air Station Patuxent River

St. Mary's County, Maryland

Rob Tucher, March 2000

Negative @ NAS Patuxent River, Patuxent River, Maryland

Detail of door hinge, solder joints, and copper strip.

Looking northwest

18 of 30



MIHP No. SM-620

Electronics Test Shielded Hangar 144,  
Naval Air Station Patuxent River  
St. Mary's County, Maryland

Rob Tucher, March 2000

Negative @ NAS Patuxent River, Patuxent River, Maryland  
East facade and south elevation of west shielded room.

Looking northwest.

19 of 30



MIHP No. SM-620

Electronics Test Shielded Hangar 144,

Naval Air Station Patuxent River  
St. Mary's County, Maryland

Rob Tucher, March 2000

Negative @ NAS Patuxent River, Patuxent River, Maryland  
Interior of West shielded room. Looking northeast.

20 of 30



MIHP No. SM-620

Electronics Test Shielded Hangar 144,

Naval Air Station Patuxent River  
St. Mary's County, Maryland

Rob Tucher, March 2000

Negative @ NAS Patuxent River, Patuxent River, Maryland

1969 aerial view. Original on file, Electronics Test

Division, NAS Patuxent River, Maryland.

21 of 30



W. S. T. LABORATORY  
INTERTRACE TEST LABORATORY



MIHP No. SM-620

Electronics Test Shielded Hangar 144,  
Naval Air Station Patuxent River  
St. Mary's County, Maryland

Rob Tucher, March 2000

Negative @ NAS Patuxent River, Patuxent River, Maryland

Circa-1960 view of west elevation. Looking east.

Original on file, Electronics Test Division,  
NAS Patuxent River, Maryland

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MIHP No. SM-620

Electronics Test Shielded Hangar 144,  
Naval Air Station Patuxent River  
St. Mary's County, Maryland

Rob Tucher, March 2000

Negative @ NAS Patuxent River, Patuxent River, Maryland

Circa - 1960 view of north and east elevations. Looking  
southwest. Original on file, Electronics Test  
Division, Naval Air Station Patuxent River,  
Maryland

23 of 30



MIHP No. SM-620

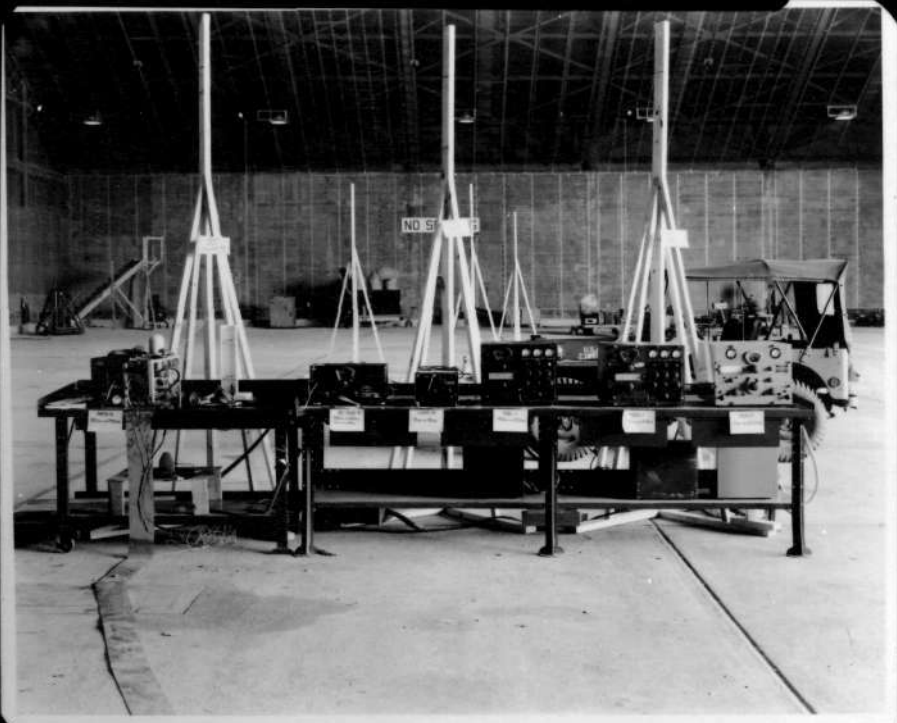
Electronics Test Shielded Hangar 144,  
Naval Air Station Patuxent River  
St. Mary's County, Maryland

Rob Tucher, March 2000

Negative @ NAS Patuxent River, Patuxent River, Maryland

Circa-1960 view of south and west elevations. Looking  
northeast. Original on file, Electronics Test Division,  
Naval Air Station Patuxent River, Maryland

24 of 30



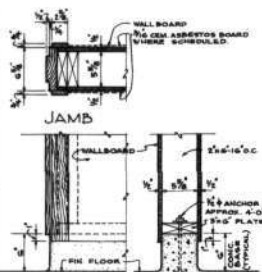
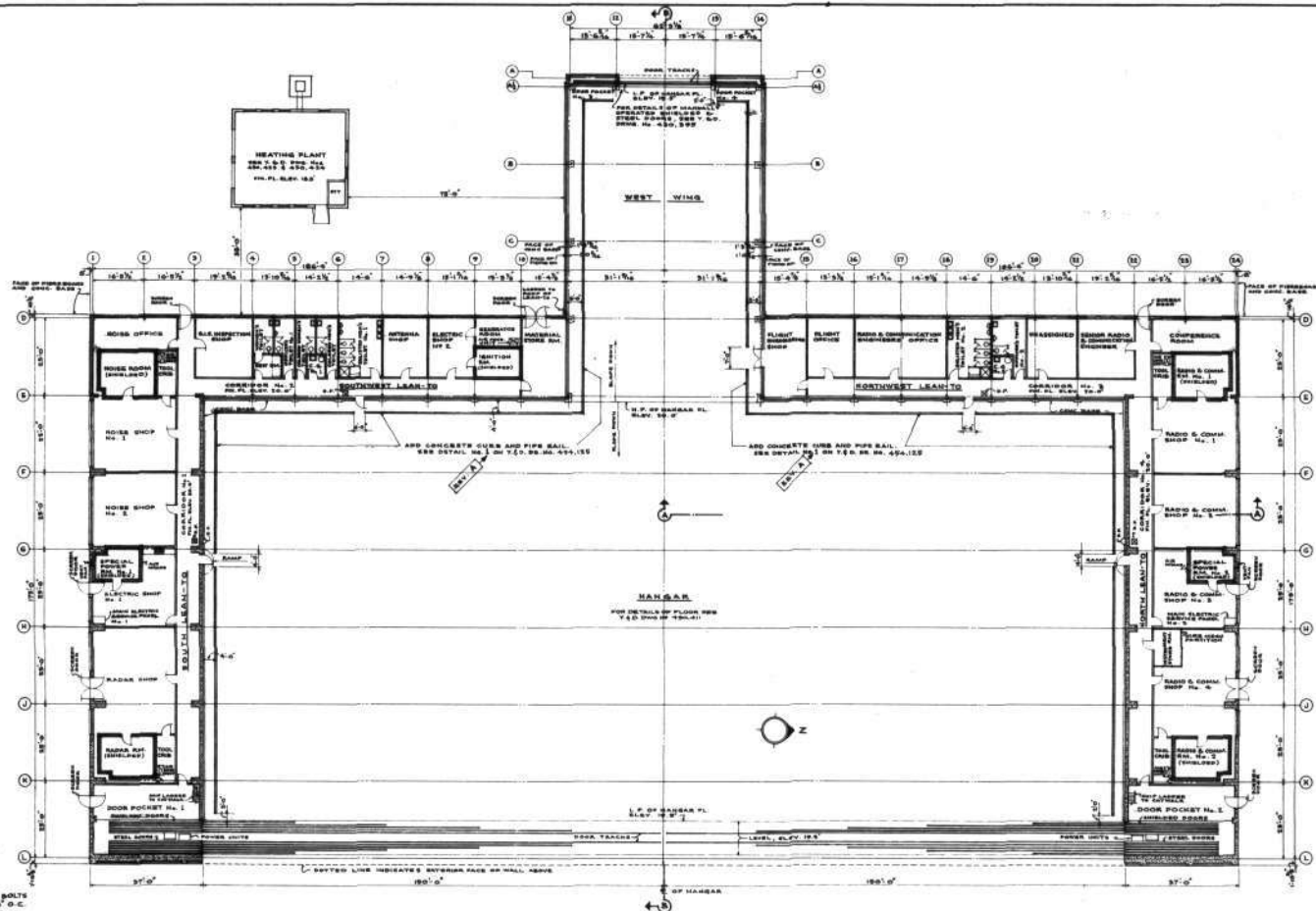
MIHP No. SM-620

Electronics Test Shielded Hangar 144,  
Naval Air Station Patuxent River  
St. Mary's County, Maryland  
Rob Tucher, March 2000

Negative @ NAS Patuxent River, Patuxent River, Maryland  
1951 photograph of test branch. Original on file, Electronics  
Test Division, Naval Air Station Patuxent River,  
Maryland

25 of 30





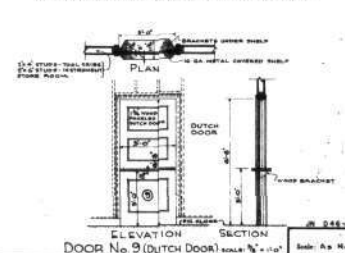
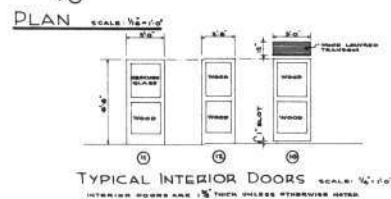
ELEVATION SECTION  
TYPICAL INTERIOR DOOR FRAME  
SCALE: 1/2" = 1'-0"



SCHEDULE OF ROOM FINISHES									
SYMBOL	FLOOR	WALL	CEILING	WALLSCOT	CEILING	REMARKS			
A	WOOD	WALLBOARD	WALLBOARD	WALLBOARD	WALLBOARD	SEE DETAIL NO. 3 ON T.D. 50. 50. 494.155			
B	WOOD	WALLBOARD	WALLBOARD	WALLBOARD	WALLBOARD	SEE DETAIL NO. 3 ON T.D. 50. 50. 494.155			
C	WOOD	WALLBOARD	WALLBOARD	WALLBOARD	WALLBOARD	SEE DETAIL NO. 3 ON T.D. 50. 50. 494.155			
D	WOOD	WALLBOARD	WALLBOARD	WALLBOARD	WALLBOARD	SEE DETAIL NO. 3 ON T.D. 50. 50. 494.155			

DOOR SCHEDULE									
SYMBOL	TYPE	MATERIAL	HEIGHT	WIDTH	THICKNESS	FRAME	SEE V. & D. DRAWING NO.		
1	SPECIAL	WOOD	8'-0"	4'-0"	1 1/2"	WOOD	430.990		
2	SPECIAL	WOOD	8'-0"	4'-0"	1 1/2"	WOOD	430.990		
3	SPECIAL	WOOD	8'-0"	4'-0"	1 1/2"	WOOD	430.990		
4	SPECIAL	WOOD	8'-0"	4'-0"	1 1/2"	WOOD	430.990		
5	SPECIAL	WOOD	8'-0"	4'-0"	1 1/2"	WOOD	430.990		
6	SPECIAL	WOOD	8'-0"	4'-0"	1 1/2"	WOOD	430.990		
7	SPECIAL	WOOD	8'-0"	4'-0"	1 1/2"	WOOD	430.990		
8	SPECIAL	WOOD	8'-0"	4'-0"	1 1/2"	WOOD	430.990		
9	SPECIAL	WOOD	8'-0"	4'-0"	1 1/2"	WOOD	430.990		
10	SPECIAL	WOOD	8'-0"	4'-0"	1 1/2"	WOOD	430.990		
11	SPECIAL	WOOD	8'-0"	4'-0"	1 1/2"	WOOD	430.990		
12	SPECIAL	WOOD	8'-0"	4'-0"	1 1/2"	WOOD	430.990		
13	SPECIAL	WOOD	8'-0"	4'-0"	1 1/2"	WOOD	430.990		
14	SPECIAL	WOOD	8'-0"	4'-0"	1 1/2"	WOOD	430.990		
15	SPECIAL	WOOD	8'-0"	4'-0"	1 1/2"	WOOD	430.990		
16	SPECIAL	WOOD	8'-0"	4'-0"	1 1/2"	WOOD	430.990		
17	SPECIAL	WOOD	8'-0"	4'-0"	1 1/2"	WOOD	430.990		
18	SPECIAL	WOOD	8'-0"	4'-0"	1 1/2"	WOOD	430.990		
19	SPECIAL	WOOD	8'-0"	4'-0"	1 1/2"	WOOD	430.990		
20	SPECIAL	WOOD	8'-0"	4'-0"	1 1/2"	WOOD	430.990		



APPROVED BY THE BUREAU OF AERONAUTICS

NAVY DEPARTMENT BUREAU OF YARDS & DOCKS

NAVAL AIR TEST CENTER

PATUXENT RIVER, MD.

ELECTRONICS TEST HANGAR

PLAN AND PLOT PLAN

Approved MAY 17, 1940. Y. & D. Drawing No. 430,383

For Chief of Bureau

MIHP No. SM-620

26

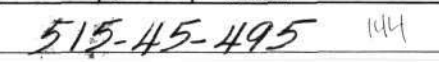
Electronics Test Shielded Hangar 144, Naval Air Station Patuxent River  
St. Mary's County, Maryland

Rob Tucher, March 2000

Negative @ NAS Patuxent River, Patuxent River, Maryland

Bureau of Yards and Docks Drawing No. 430,383. "Electronics Test Hangar: Plan  
and Plot Plan." May 17, 1946. Original on file, Public Works Department,  
NAS Patuxent River, Maryland.

26 of 30



MIHP No. SM-620

Electronics Test Shielded Hangar 144, Naval Air Station Patuxent River

St. Mary's County, Maryland

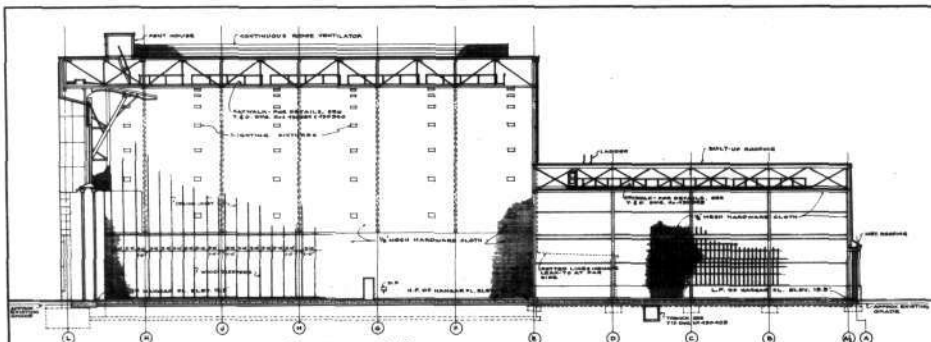
Rob Tucher, March 2000

Negative @ NAS Patuxent River, Patuxent River, Maryland

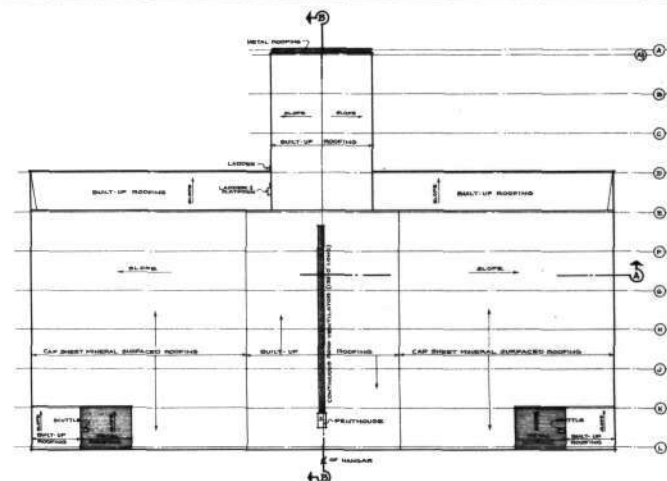
Bureau of Yards and Docks Drawing No. 430,384. "Electronics Test Hangar: Plans of Lean-Tos."

May 17, 1946. Original on file, Public Works Department, Naval Air Station Patuxent River, Maryland.

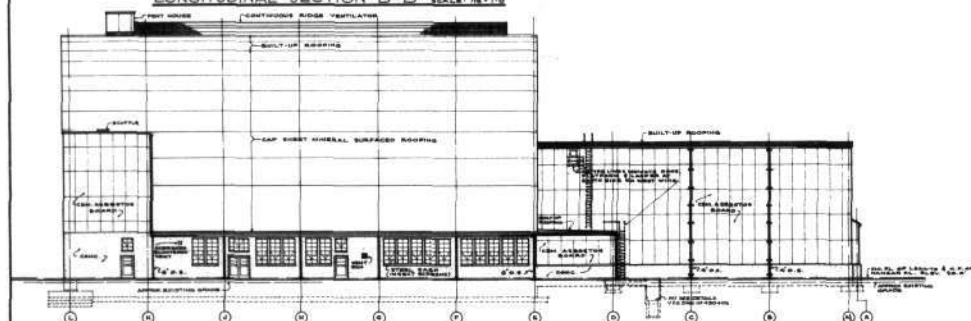
27 of 30



LONGITUDINAL SECTION B-B SCALE: 1/4" = 1'-0"

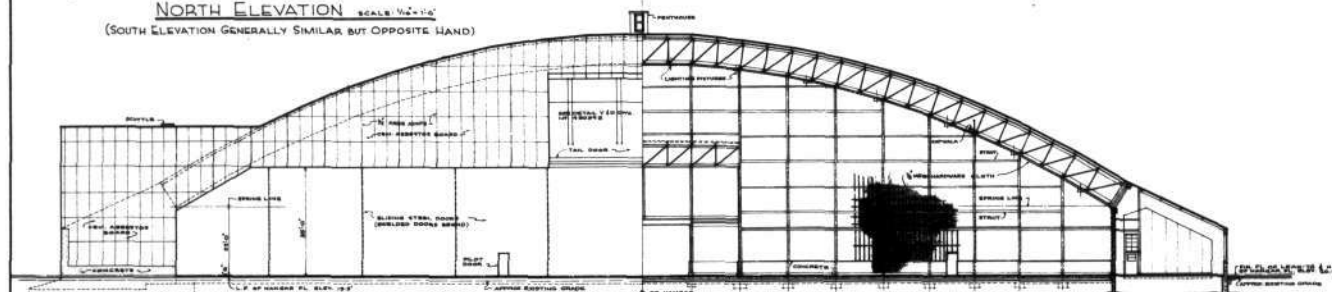


ROOF PLAN SCALE: 1/4" = 1'-0"



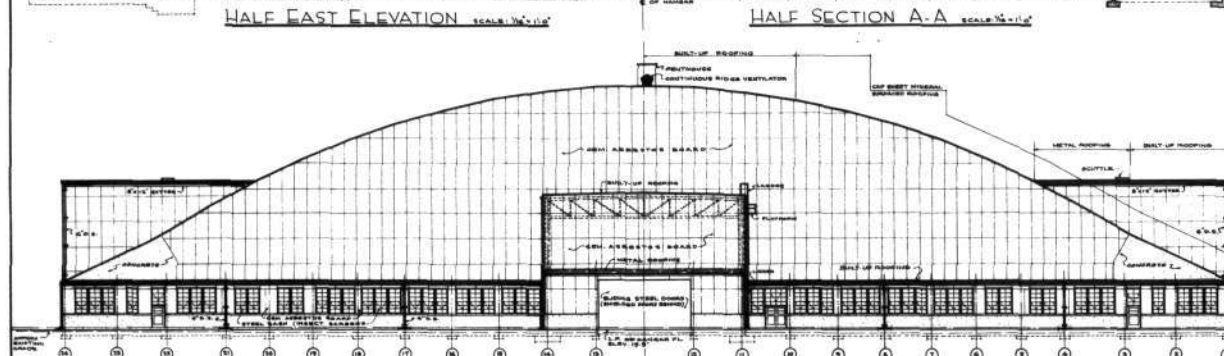
NORTH ELEVATION SCALE: 1/4" = 1'-0"

(SOUTH ELEVATION GENERALLY SIMILAR BUT OPPOSITE HAND)



HALF EAST ELEVATION SCALE: 1/4" = 1'-0"

HALF SECTION A-A SCALE: 1/4" = 1'-0"



WEST ELEVATION SCALE: 1/4" = 1'-0"

Revised	Date	By
Prepared by	NAVY DEPARTMENT	BUREAU OF YARDS & DOCKS
Drawn by	NAVAL AIR TEST CENTER	
Checked by	PATUXENT RIVER, MD.	
Supervisor	ELECTRONICS TEST HANGAR	
Chief Clerk	ELEVATIONS, SECTIONS, AND ROOF PLAN	
Design	Approved MAY 17 1946	
Scale	430,385	
Per Chief of Bureau		

515-45-496

MI HP No. SM-620

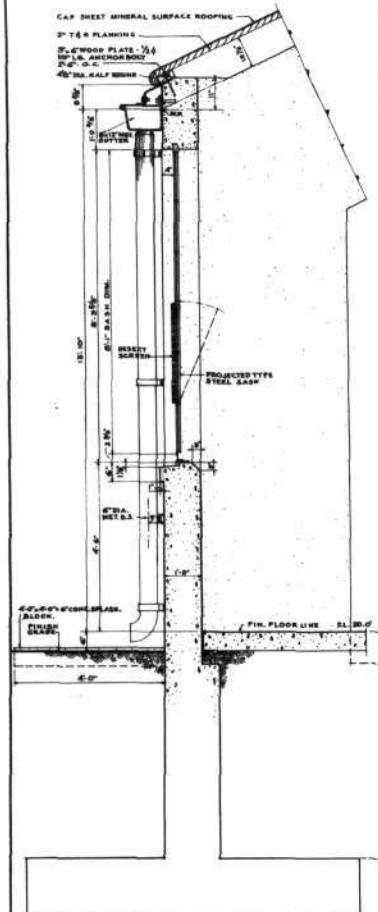
Electronics Test Shielded Hangar 144, Naval Air Station Patuxent River  
St. Mary's County, Maryland

Rob Tucher, March 2020

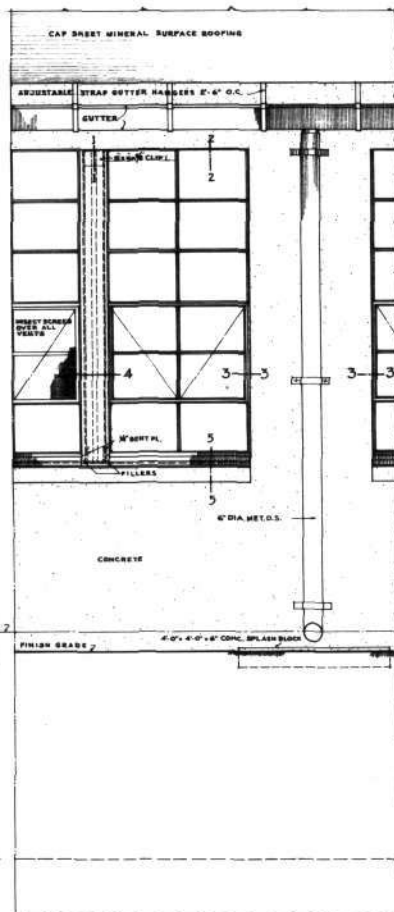
Negative @ NAS Patuxent River, Patuxent River, Maryland

Bureau of Yards and Docks Drawing No. 430,385. "Electronics Test Hangar: Elevations,  
Sections, and Roof Plan." May 17, 1946. Original on file, Public Works Department,  
NAS Patuxent River, Maryland.

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TYPICAL WALL SECTION OF NORTH  
& SOUTH LEAN-TOS  
SCALE 3/4\"/>



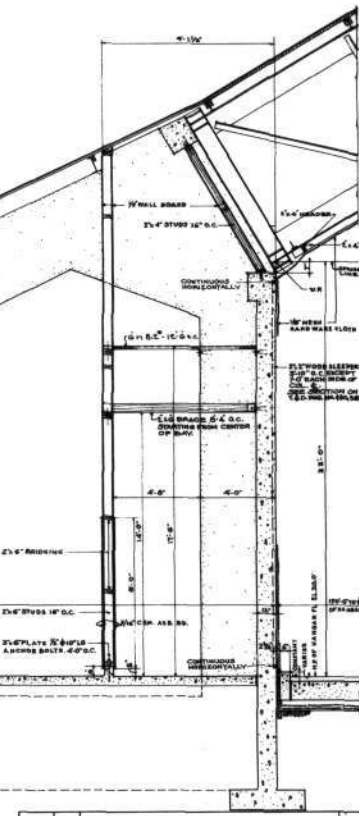
PART ELEVATION



PART PLAN  
SCALE 3/4\"/>



TYPICAL CROSS SECTION THRU NORTH  
& SOUTH LEAN-TOS  
SCALE 1/2\"/>



DETAILS OF NORTH & SOUTH LEAN-TOS

Section	Date	Scale	By
Prepared by: <i>W. H. H. H.</i> Drawn by: <i>W. H. H. H.</i> Checked by: <i>W. H. H. H.</i> Supervisor: <i>W. H. H. H.</i> Group: <i>W. H. H. H.</i> Chief: <i>W. H. H. H.</i>			
Date: <i>May 17, 1964</i> Proj. No.: <i>430,386</i> Drawn: <i>W. H. H. H.</i> Checked: <i>W. H. H. H.</i> Group: <i>W. H. H. H.</i> Chief: <i>W. H. H. H.</i>			
Approved: <i>W. H. H. H.</i> MAY 17, 1964 For: <i>W. H. H. H.</i> NO. 18098 May 1964			

515-45-497

MIHP No. SM-620

Electronics Test Shielded Hangar 144, Naval Air Station Patuxent River  
St. Mary's County, Maryland

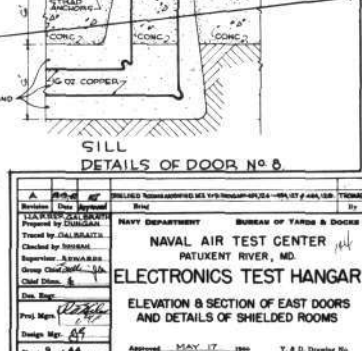
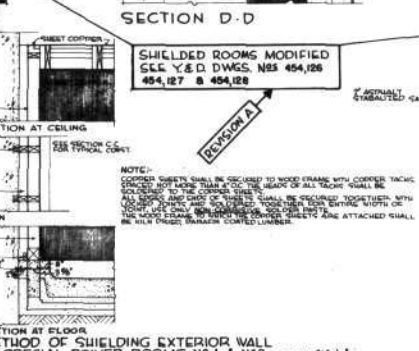
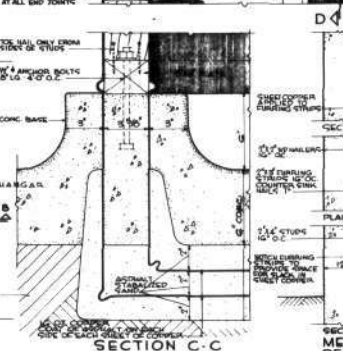
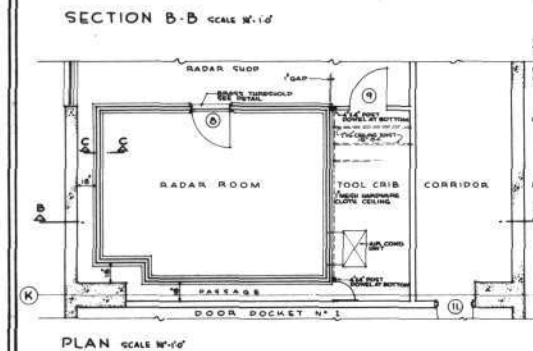
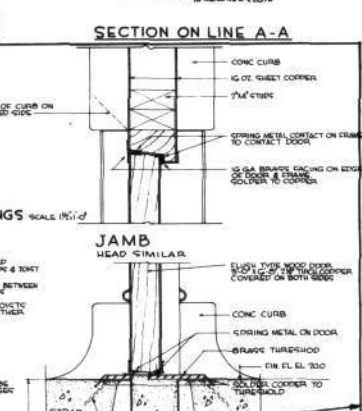
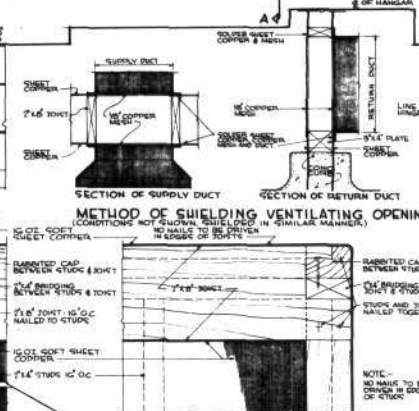
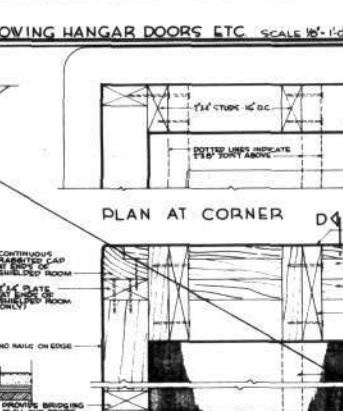
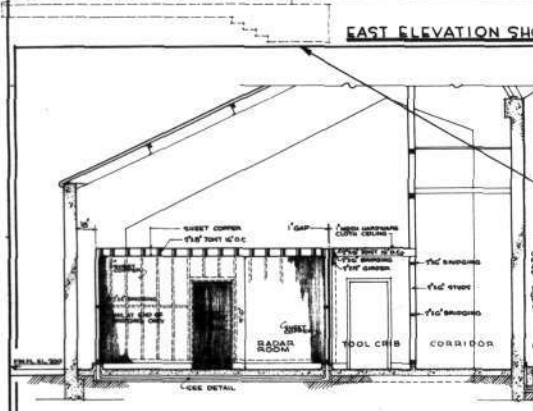
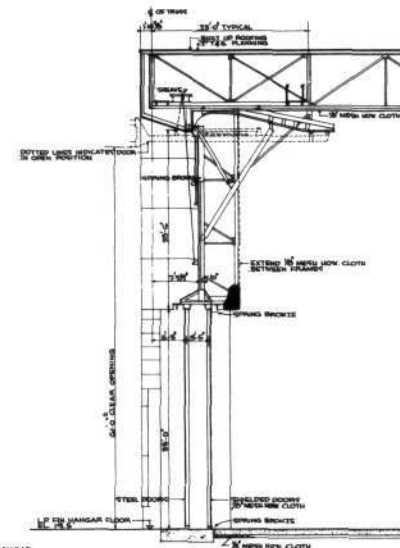
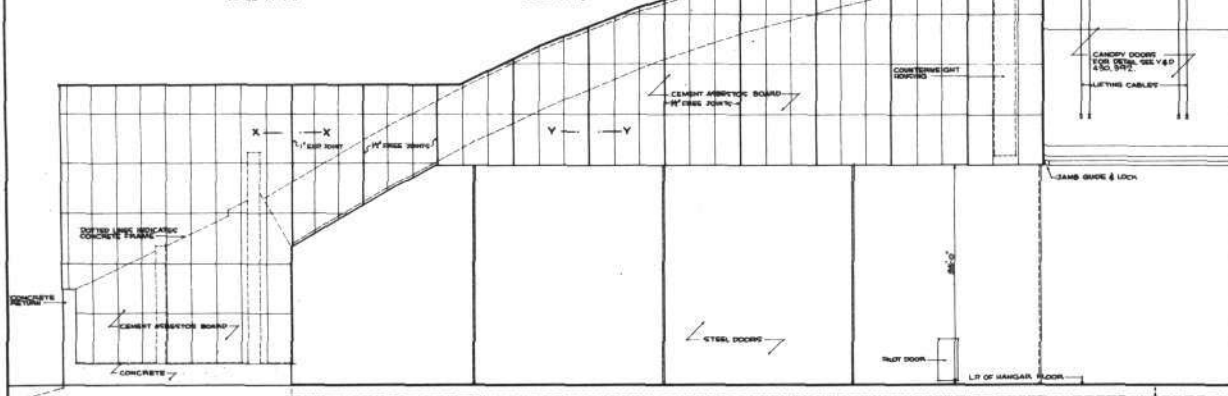
Rob Tucher, March 2000

Negative @ NAS Patuxent River, Patuxent River, Maryland

Bureau of Yards and Docks Drawing No. 430,386. "Electronics Test Hangar:  
Details of North & South Lean-Tos." May 17, 1946. Original on file,  
Public Works Department, NAS Patuxent River, Maryland.

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DETAILS OF RADAR ROOM (SHIELDED) AND TOOL CRIB  
OTHER SHIELDED ROOMS GENERALLY SIMILAR IN CONSTRUCTION

DRAWING NO. 430,391 PROJECT BY: [Signature] CHECKED BY: [Signature] SUPERVISOR: [Signature] GROUP CHIEF: [Signature] DATE: MAY 17, 1966 DESIGNED BY: [Signature] DRAWN BY: [Signature]		SHIELDED ROOMS MODIFIED SEE Y&D DWGS. NOS 454,126 454,127 & 454,128
APPROVED: MAY 17, 1966 FOR CHIEF OF BUREAU: [Signature]		Y&D Drawing No. 430,391

515-45-502

MI HP No. SM-620

Electronics Test Shielded Hangar 144, Naval Air Station Patuxent River

St. Mary's County, Maryland

Rob Tucher, March 2000

Negative @ NAS Patuxent River, Patuxent River, Maryland

Bureau of Yards and Docks Drawing No. 430,391. "Electronics Test Hangar: Elevation & Section of East Door and Details of Shielded Rooms." May 17, 1946. Original on file, Public Works Department, Naval Air Station Patuxent River, Maryland.

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